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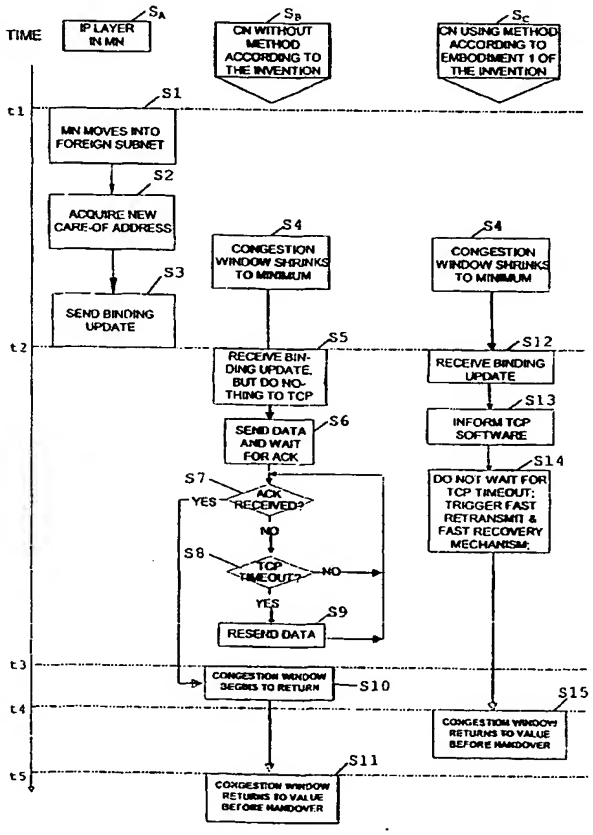
(54) Title: SYSTEM, DEVICE AND METHOD FOR IMPROVING THROUGHPUT IN A COMMUNICATION NETWORK, PREFERABLY A MOBILE IPV6-BASED NETWORK



(57) Abstract: The invention relates to a method and system for managing a communication between a first mobile network element and a second network element, wherein the communication is performed via a network on a packet-switched basis with acknowledgment messages acknowledging receipt of packets being returned to the packet sending network element. A congestion control is provided for controlling the number of packets being allowed to be sent before receipt of acknowledgment messages for these packets. The congestion control is adapted to change, when the first network element performs a hand-over and sends a message informing on the I hand-over, so as to provide faster recovery rate after handover as compared to the normal recovery rate after packet loss. At least one of the first and second network element is adapted, when receiving the message, to trigger the invocation of a fast retransmit and fast recovery algorithm. As an alternative, in order to provide the faster recovery rate after handover, a congestion window size may be step-wise increased after handover, or a threshold value defining a change from exponential to linear increase of the congestion window size, may be set to a value which is more than one half of the window size value before handover.

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